

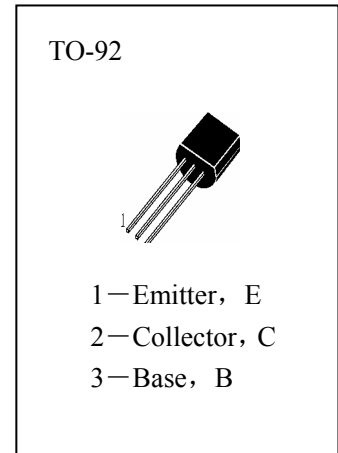


■ APPLICATIONS

audio amplifier.

■ ABSOLUTE MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ )

- $T_{stg}$ —Storage Temperature..... -55~150 $^{\circ}\text{C}$
- $T_j$ —Junction Temperature.....150 $^{\circ}\text{C}$
- $P_C$ —Collector Dissipation.....750mW
- $V_{CBO}$ —Collector-Base Voltage.....-20V
- $V_{CEO}$ —Collector-Emitter Voltage.....-16V
- $V_{EBO}$ —Emitter-Base Voltage.....-6V
- $I_C$ —Collector Current (DC) ..... -2A
- $I_{CP}$ —Collector Current (Pulse) .....-3A



■ ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ )

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BVCBO	Collector-Base Breakdown Voltage	-20			V	$I_C=-100\mu\text{A}, I_E=0$
BVCEO	Collector-Emitter Breakdown Voltage	-16			V	$I_C=-10\text{mA}, I_B=0$
BVEBO	Emitter-Base Breakdown Voltage	-6			V	$I_E=-1\text{mA}, I_C=0$
HFE (1)	DC Current Gain	135	350	650		$V_{CE}=-2\text{V}, I_C=-100\text{mA}$
HFE (2)	DC Current Gain	100				$V_{CE}=-2\text{V}, I_C=-1.5\text{A}$
$V_{CE(sat1)}$	Collector- Emitter Saturation Voltage		-0.25	-0.4	V	$I_C=-1\text{A}, I_B=-10\text{mA}$
$V_{CE(sat2)}$	Collector- Emitter Saturation Voltage		-0.31	-0.5	V	$I_C=-1.5\text{A}, I_B=-75\text{mA}$
$V_{CE(sat3)}$	Collector- Emitter Saturation Voltage		-0.33	-0.5	V	$I_C=-1.5\text{A}, I_B=-20\text{mA}$
$V_{BE}$	Base-Emitter Voltage	-550	-600	-650	mV	$V_{CE}=-6\text{V}, I_C=-5.0\text{mA}$
$I_{CBO}$	Collector Cut-off Current			-100	nA	$V_{CB}=-16\text{V}, I_E=0$
$I_{EBO}$	Emitter Cut-off Current			-100	nA	$V_{EB}=-6\text{V}, I_C=0$
$f_T$	Current Gain-Bandwidth Product	100	180		MHz	$V_{CE}=-10\text{V}, I_C=-50\text{mA}$
$C_{ob}$	Output Capacitance		60		pF	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$

■  $h_{FE}$  Classification

L	K	U
135—270	200—400	300—650